

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Titan Glass & Aluminum, LLC 450 West 27th Street Hialeah, FL 33010

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "TSH-2750" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **AD10–05**, titled "TSH-2750 Aluminum Single Hung Window (LMI)", sheets 1 through 6 of 6, dated 11/14/12, with revision #1 dated 03/15/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., bearing the Miami–Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 12-0326.06 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

1/12/21/12

MIAMI-DADE COUNTY
APPROYED

NOA No. 12-1128.02 Expiration Date: June 24, 2014 Approval Date: December 27, 2012 Page 1

Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No **AD10–05**, titled "TSH-2750 Aluminum Single Hung Window (LMI)", sheets 1 through 6 of 6, dated 11/14/12, with revision #1 dated 03/15/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
 - 2) Large Missile Impact Test per FBC, TAS 201–94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203–94 along with marked-up drawings and installation diagram of series FIW 2009–80 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL**–6057, dated 10/05/09, signed and sealed by Julio E. Gonzalez, P.E.

(Submitted under previous NOA# 10-0422.06)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked—up drawings and installation diagram of series FIW 2008 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL**—**5743**, dated 12/30/08, signed and sealed by Michael R. Wenzel, P.E.

(Submitted under previous NOA# 09-0413.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC–2007, prepared by MCY Engineering, Inc., dated 04/07/10, signed and sealed by Yiping Wang, P.E.

(Submitted under previous NOA# 10-0422.06)

2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

Manuel Perez, P.E. Product Control Examiner

NOA No. 12-1128.02 Expiration Date: June 24, 2014

Approval Date: December 27, 2012

Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 11–0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.
- 2. Notice of Acceptance No. 11–0624.01 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 09/08/11, expiring on 12/11/16.

F. STATEMENTS

- 1. Statement letter of conformance and compliance with FBC 2010, dated March 15, 2012 and updated on November 18, 2012, signed and sealed by Yiping Wang, P.E. (Submitted under previous NOA# 12-0326.06)
- 2. Statement letter of no financial interest, dated April 14, 2010, signed and sealed by Yiping Wang, P.E.

(Submitted under previous NOA# 10-0422.06)

Laboratory compliance letter for Test Report No. **FTL**—**6057**, issued by Fenestration Testing Laboratory, Inc., dated October 05, 2009, signed and sealed by Julio E. Gonzalez, P.E.

(Submitted under previous NOA# 10-0422.06)

4. Laboratory compliance letter for Test Report No. **FTL**–**5743**, issued by Fenestration Testing Laboratory, Inc., dated December 30, 2008, signed and sealed by Michael R. Wenzel, P.E.

(Submitted under previous NOA# 09-0413.06)

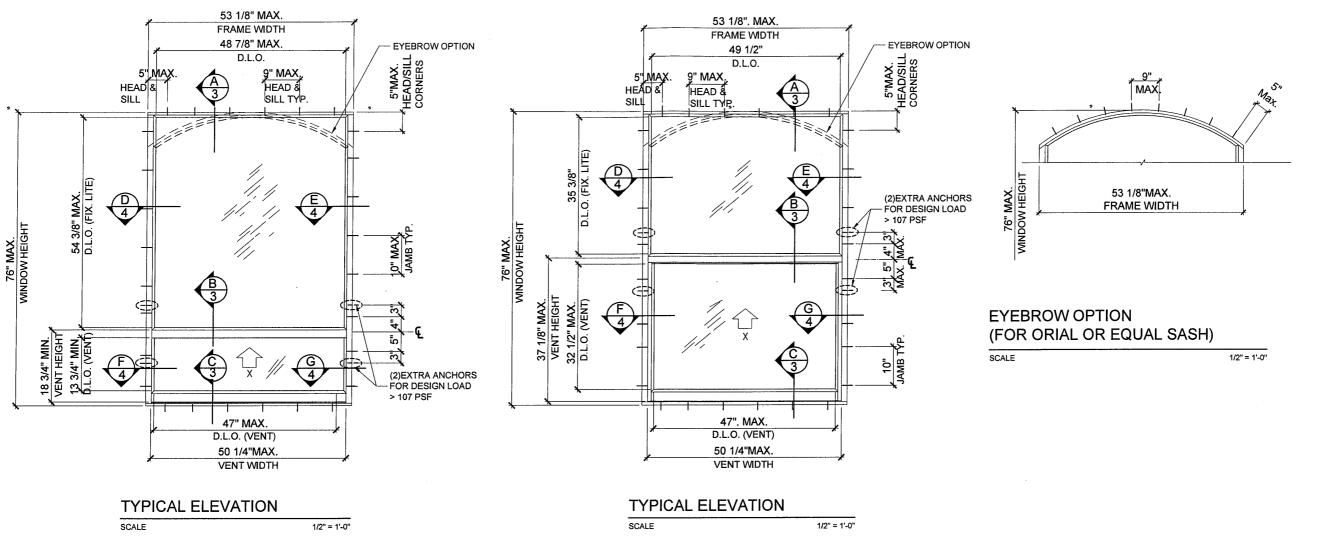
- 5. Letter from owner of existing NOA relinquishing rights to same, dated 10/18/12, signed by Enrique "Henry" Revilla.
- 6. Letter from applicant specifically stating that they have legally purchased all assets and requesting that a new NOA be issued under their name, dated 10/18/12, signed by Luis Navia.
- 7. Purchase/Sale Agreement of Assets dated October 12, 2012, signed by Mr. Luis Navia and Mr. Henry Revilla.

G. OTHERS

1. Notice of Acceptance No. **12-0326.06**, issued to Florida Coastal Impact Window, LLC for their Series "2009–SH" Aluminum Single Hung Window – L.M.I.", approved on 06/07/12 and expiring on 06/24/14.

Manuel Perez, P.E. Product Control Examine NOA No. 12-1128.02

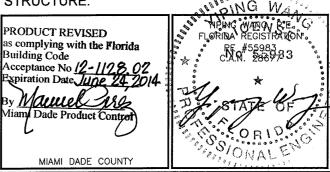
Expiration Date: June 24, 2014 Approval Date: December 27, 2012



GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE, G = 0.55 AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- PROVIDE 1/4" MAX, LOAD BEARING SHIM SPACE (TYP.).
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE FLORIDA BUILDING CODE REQUIREMENTS.
- METAL STRUCTURES BY OTHERS MUST SUPPORT LOADS IMPOSED BY WINDOW SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



ENGINEERING, INC. 8501 SW 124 AVE. MIAMI, FL. 33183 TSH-2750 ALUMINUM SINGLE HUNG WINDOW TITAN GLASS & ALUMINUM, 11/14/12 AS SHOWN

DRAWN

W.L. ROJECT 10-012

AD10-05

SHEET 1 OF 6

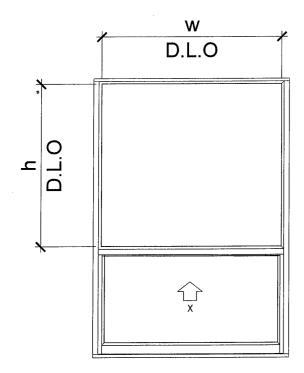
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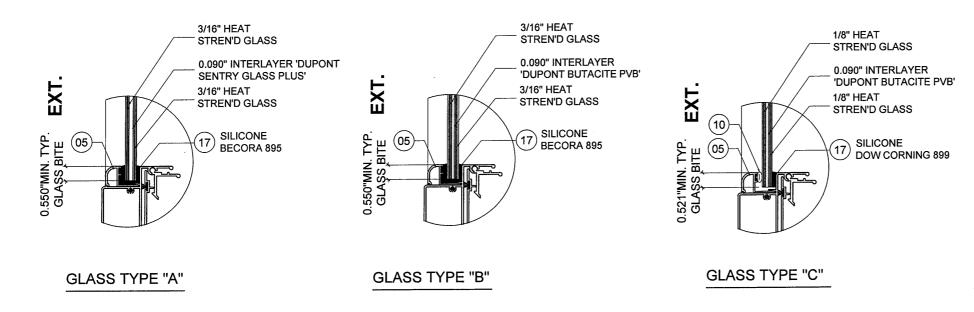
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SINGLE HUNG WINDOW SCHEDULE

| | GLASS TYPE A | GLASS TYPE B | GLASS TYPE C |
|--|--------------------------|--------------------------|------------------------|
| MAXIMUM DESIGN LOAD | +110.0 PSF -150.0 PSF | +110.0 PSF -150.0 PSF | +80.0 PSF -80.0 PSF |
| MAX. FIXED LITE GLASS AREA (w*h) | 2640 IN ² | 1729 IN ² | 2640 IN ² |

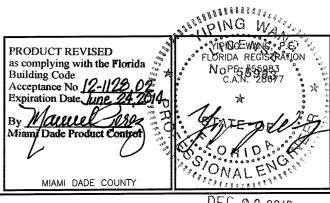
NOTE: SCHEDULE FOR UNEQUAL SASH HEIGHT ORIEL AND EQUAL SASH HEIGHT SINGLE HUNG WINDOW. ALSO FOR RECTANGULAR OR EYEBROW.



GLAZING OPTIONS

NOTE: GLASS CAPACITIES ARE BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)

GLAZING COMPLY WITH ASTM E1300-04



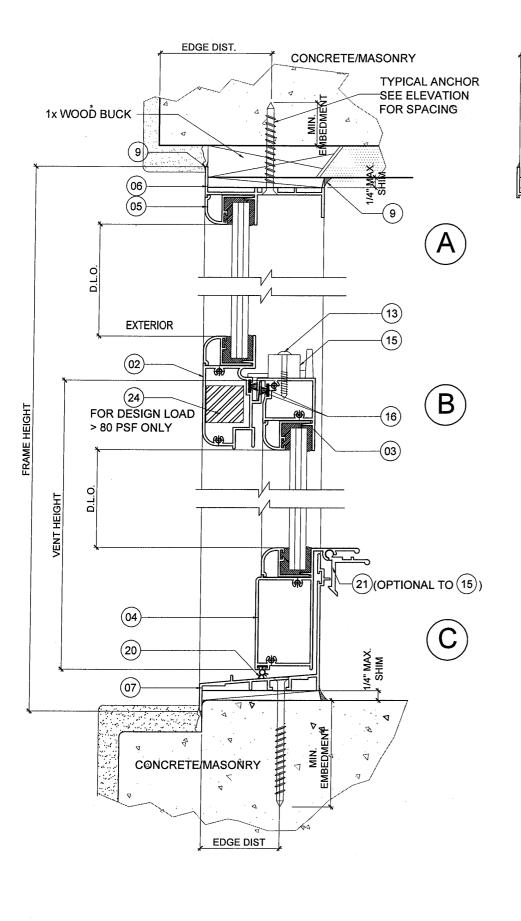
TSH-2750 ALUMINUM SINGLE HUNG WINDOW
TITAN GLASS & ALUMINUM, LLC.
450 WEST 27th STREET
HIALEAH, FL 33010
P: (305) 888 - 0911 F: (305) 671 - 3840 DATE 11/14/12 SCALE AS SHOWN DRAWN W.L. PROJECT 10-012 DRAWING NO. AD10 - 05SHEET 2 OF 6

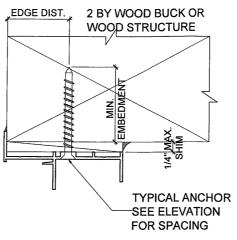
MCY ENGINEERING, INC. GLAZING CONSULTANTS

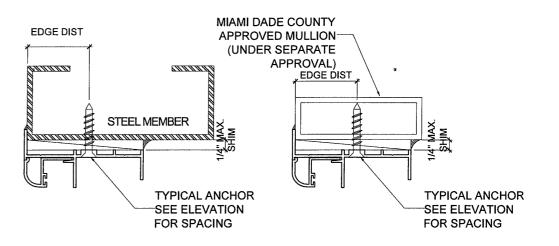
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8501 SW 124 AVE. MIAMI, FL. 33183







TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' 1/4" DIA. HILTI KWIK-CON II (Fy=157 KSI, Fu=163 KSI)

- INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 - 1-1/2" MIN. WOOD PENETRATION
- THRU 1BY WOOD BUCKS INTO MASONRY OR CONC.
 1-5/8" MIN. EMBED INTO MASONRY OR CONC.
- DIRECTLY INTO MASONRY OR CONCRETE
 1-5/8" MIN. EMBED INTO MASONRY OR CONCRETE

TYPE 'B' 1/4" DIA. TEKS OR SELF DRILLING SCREWS (Fy=92 KSi, Fu=120 KSI)

INTO METAL STRUCTURES

STEEL: 12 GA. MIN. (Fy = 36 KSI MIN.)

ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE:

INTO CONCRETE AND MASONRY:

2" MIN. AT JAMB & 1-1/2" AT HEAD & SILL

INTO WOOD STRUCTURE = 1" MIN.

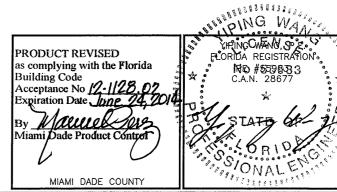
INTO METAL STRUCTURE = 3/4" MIN.

SEALANT:

ALL FRAME CORNERS, VENT CORNERS AND EACH END OF THE FIXED MEETING RAILS

WEEP HOLES:

1/4" LONG WEEP HOLES NOTCH ONE AT EACH END.





SHEET 3 OF 6

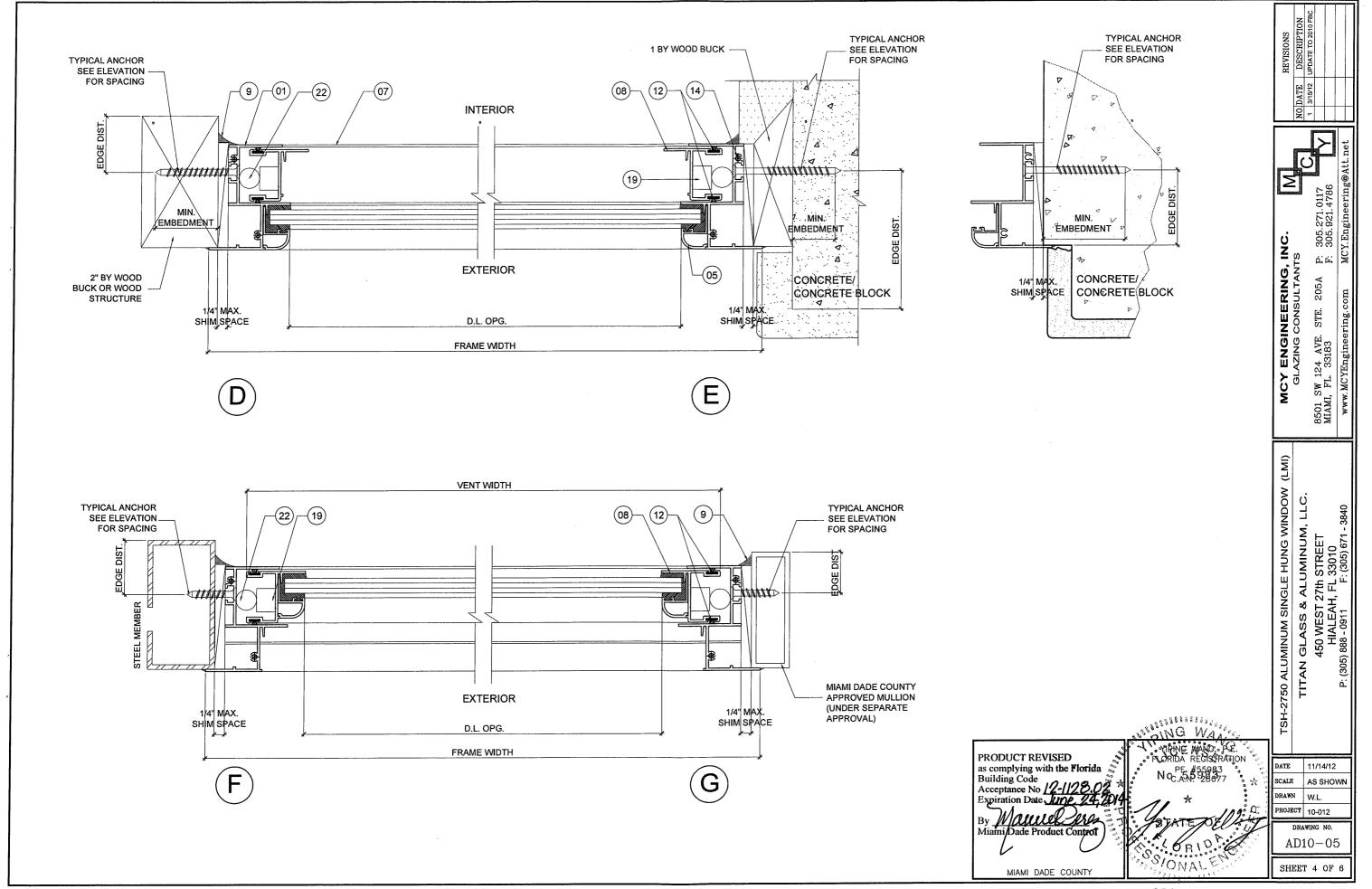
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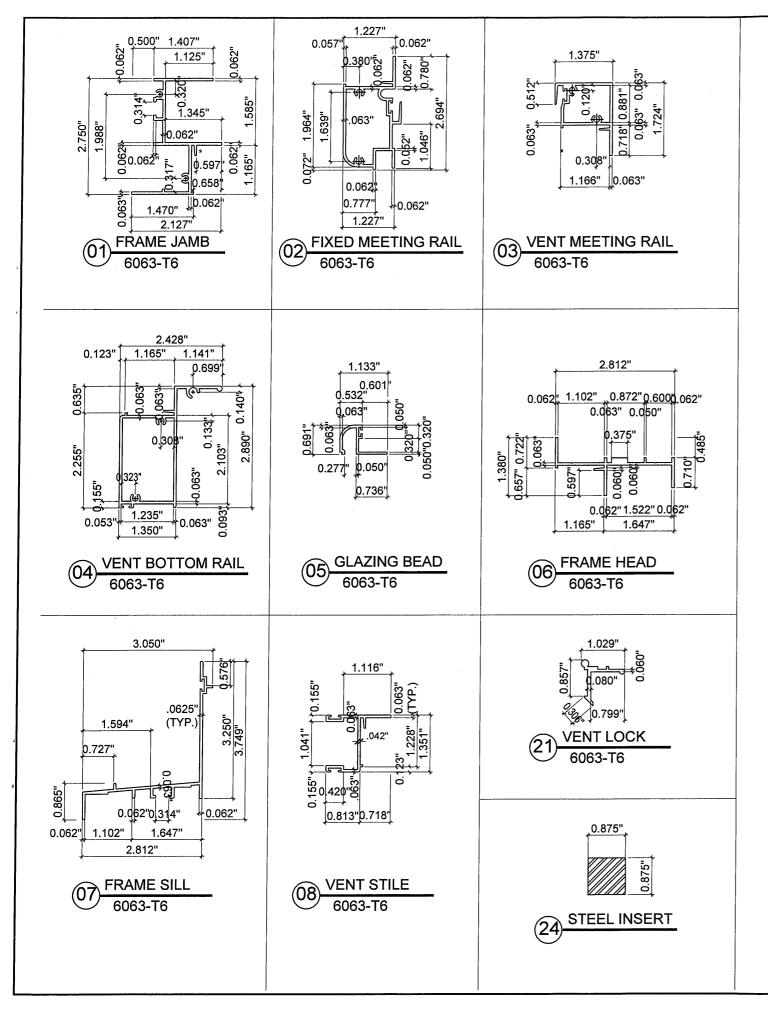
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MCY ENGINEERING, INC. GLAZING CONSULTANTS





BILL OF MATERIAL

| ITEM# | PART | DESCRIPTION | MATERIAL |
|-------|---------------------------------|--|---------------------------|
| 01 | FSP 015 | FRAME JAMB | 6063-T6 |
| 02 | FSP 041 | FIXED MEETING RAIL | 6063-T6 |
| 03 | FSP 018 | VENT MEETING RAIL | 6063-T6 |
| 04 | FSP 042 | VENT BOTTOM RAIL | 6063-T6 |
| 05 | FSP 017 | GLAZING BEAD | 6063-T6 |
| 06 | FSP 014 | FRAME HEAD | 6063-T6 |
| 07 | FSP 040 | FRAME SILL | 6063-T6 |
| 08 | FSP 016 | VENT STILE | 6063-T6 |
| 9 | SILICONE | SEALANT, AT FRAME CORNERS, VENT CORNERS AND EACH END OF THE FIXED MEETING RAIL. | NON STRUCTURAL SILICON |
| 10 | | VINYL BULB | - |
| 11 | FASTENER | #8 X 1 1/2" PH SMS (SS) VENT CORNER FASTENERS | - |
| 12 | | WEATHER STRIP | - |
| 13 | FASTENER | #8 X 5/8" PH SMS (SS) LATCH LOCK FASTENER | - |
| 14 | FASTENER | #8 X 1 1/2" PH SMS (SS) FRAME CORNER FASTENERS | - |
| 15 | | LATCH LOCK | - |
| 16 | | WEATHER STRIP | - |
| 17 | SILICONE | PECORA 896 | STRUCTURAL SILICON |
| 18 | NYLON GUIDES | (4) NYLON GUIDES LOCATED AT 3 1/8" AND 36 3/4" FROM BOTTOM OF VENT STILE USING (1) #6X3/8" F.H. S.M.S. | - |
| 19 | NYLON GUIDES | (2) NYLON GUIDES LOCATED AT EACH END OF VENT MEETING RAIL USING (2) #8X1 1/2" P.H. S.M.S. | - |
| 20 | | VENT VINYL BULB | - |
| 21 | FSP 021 | VENT LOCK | - |
| 22 | | BALANCE | - |
| 23 | SURFACE MOUNT METALLIC CLIPS | (2) CLIPS AT EACH VENT BOTTOM RAIL CONNECTED USING (2) #8X5/8" F.H. S.M.S. | - |
| 24 | | 7/8" X 7/8" CONT. STEEL BAR, ZINC PLATED USED WHEN DESIGN LOAD > 80 PSF | ASTM A-36 |

PRODUCT REVISED as complying with the Florida

MIAMI DADE COUNTY

